REVISED PART A APPLICATION

COMBINED HAZARDOUS WASTE, LOW LEVEL MIXED WASTE, TRU MIXED WASTE AND MIXED RESIDUE UNITS

REVISION 4

U. S. DEPARTMENT OF ENERGY

ROCKY FLATS PLANT

GOLDEN, COLORADO

MAY 1992

OTHER CHANGES

Previous submittals requested the addition of two treatment units to separate oil from water in Buildings 443 (Unit 51) and 776 (Unit 52). Subsequent analysis indicated that the oil/water mixture being separated in Building 776 did not exhibit toxicity characteristics and therefore the separation process does not meet the definition of "treatment" as defined in 6 CCR 1007-3, Part 260.10. During a meeting with your office on September 12, 1991, photographs of the separation process at Building 443 were discussed and it was concluded that this step was considered part of the generation process and did not meet the definition of treatment. Both of these units are therefore withdrawn from the attached revised Part A Application.

Additionally, please note that our previous request (Combined Part A, Revision 1, August 1991) to treat formaldehyde waste (U122) in the form of an excess chemical in Unit 42 is being withdrawn. Based on the fact that the formaldehyde in question was being used as a preservative for filter membranes, the formaldehyde no longer met the definition of an unused commercial chemical or off-specification product. Also, a previous request for additional waste codes in Unit 63, drum storage area in Building 371, Room 3420 (Combined Part A, Revision 1, August 1991), is being withdrawn at this time. This unit, along with a description of wastes to be stored, has been submitted in the mixed residue permit modification request delivered to the Colorado Department of Health on June 30, 1992.

REVISED PART A APPLICATION

COMBINED HAZARDOUS WASTE, LOW LEVEL MIXED WASTE, TRU MIXED WASTE AND MIXED RESIDUE UNITS

REVISION 4

U. S. DEPARTMENT OF ENERGY

ROCKY FLATS PLANT

GOLDEN, COLORADO

MAY 1992

This document contains the revised combined Part A application for the storage and treatment of hazardous, low level mixed and TRU mixed wastes, and mixed residues at the existing U.S. Department of Energy (DOE) Rocky Flats Plant facility as described in detail in previously submitted Part A and Part B applications for both hazardous and low level mixed wastes and TRU mixed wastes.

The original Part A was submitted on or about November 14, 1980. Subsequent revised Part A and B applications have been submitted to the U.S. Environmental Protection Agency (EPA) Region VIII, Denver, Colorado, and to the Colorado Department of Health (CDH), Denver, Colorado, as noted below:

May 31, 1985	-	Hazardous Part A only; to CDH and EPA
November 1, 1985	-	Hazardous Parts A and B; to CDH
November 8, 1985	-	Low Level Mixed Radioactive Parts A and B; to EPA
November 5, 1986	-	Part A (to add certain Low Level Mixed Radioactive Wastes); to CDH and EPA
November 28, 1986	-	Revision 0, Hazardous and Low Level Mixed Radioactive Parts A and B; to CDH and EPA
September 28, 1987	-	Revision 0, TRU Mixed Part A; to CDH and EPA
December 15, 1987	-	Revision 1, Hazardous and Low Level Mixed Radioactive Parts A and B; to CDH and EPA
April 13, 1988	-	Revision 2, Hazardous and Low Level Mixed Radioactive Parts A and B; to CDH and EPA
May 25, 1988	-	Revision 1, TRU Mixed Part A; to CDH and EPA
July 1, 1988	-	Revision 0, TRU Mixed Part B; to CDH and EPA
August 1, 1988	-	Revision 3, Hazardous and Low Level Mixed Radioactive Part A; to CDH and EPA
August 16, 1989	-	Combined Part A; submitted for information purposes
October 6, 1989	-	Revision 2, TRU Mixed Part A; to CDH and EPA
October 31, 1989	-	Revision 3, TRU Mixed Part A to EPA and CDH
October 31, 1989	-	Revision 4, Hazardous and Low Level Mixed Radioactive Part A; to CDH and EPA (reflecting change in operator)
November 1, 1989	-	Revision 4, TRU Mixed Part A to EPA and CDH (reflecting change in operator)
January 3, 1990	-	Revision 5, Hazardous and Low Level Mixed Part A; to CDH and EPA
March 30, 1990	-	Revision 3, Hazardous and Radioactive Mixed Wastes Part B (response to Notice of Intent to Deny); to CDH
June 8, 1990	-	Revision 6, Hazardous and Low Level Mixed Part A; to CDH

May 1991	-	Revision 7, Hazardous and Low Level Mixed Part A; to CDH
May 1991	-	Revision 5, TRU Mixed Part A; to CDH
June 1991	-	Revision 8, Hazardous and Low Level Mixed Part A; to CDH
June 1991	-	Revision 6, TRU Mixed Part A; to CDH
August 1991	-	Revision 1, Combined Hazardous, Low Level and TRU Mixed Part A; to CDH
October 1991	-	Permit Modification Request Number 1; to CDH
October 30,1991	-	Part B Operating Permit Effective Date
November 1991	-	Permit Modification Request Number 2; to CDH
December 1991	-	Permit Modification Request Number 3; to CDH
January 1992	-	Revision 2, Combined Hazardous, Low Level Mixed, TRU Mixed and Mixed Residues Part A with Permit Modification Request Number 4; to CDH
January 1992	-	Permit Modification Request Number 5; to CDH
January 1992	-	Revision 3, Combined Hazardous, Low Level Mixed, TRU Mixed and Mixed Residues Part A; to CDH
February 1992	-	Permit Modification Request Number 6; to CDH
March 1992	-	Permit Modification Request Number 7; to CDH

This application is a revision to the previous combined Part A Application dated January 1992, and includes the addition of various EPA hazardous waste codes to Units 11, 19, 20, 25, 40, 42, 43, 55, 56, 57, 59, 61, 62, 69 and 73. This application is referred to as revision 4 of the combined Part A application. Nine units have been included in the State RCRA Permit for the Rocky Flats Plant. The remaining operating units at Rocky Flats are currently operating under temporary authorization or interim status until a final permit is issued.

ATTACHMENT 1

ITEM X. EXISTING ENVIRONMENTAL PERMITS

The Rocky Flats Plant has filed Air Pollution Emission Notices (APENS) with the State of Colorado, Department of Health for regulated source emissions on-site as required. New APENS are currently being filed for all plant roof penetrations per the "Agreement in Principle" signed on June 28, 1989 between the State of Colorado and the U. S. Department of Energy. The APENS are technical information documents whereby the State of Colorado will determine which air sources on plant site will be permitted.

Permit Type	Permit Number	Description
R	91-09-30-01	State RCRA Permit
R	CO7890010526	RCRA interim status - see cover page
N	CO-0001333	Clean Water Act NPDES permit
E	C-12,931	Clean Air Act Bldg. 122 incinerator (classified documents) permit
E	C-13,022	Clean Air Act Bldg. 776 incinerator (mixed waste) permit
E	12JE932	Clean Air Act Bldg. 771 incinerator permit
E	87JE084L	Clean Air Act fugitive dust emission permit for off-site soil remediation
E	86JE018	Clean Air Act Bldg. 123 urinalysis laboratory fume hood permit
E	90JE045-1 through 4	Clean Air Act pondcrete shelters permit
E	91JE047	Bldg. 776 Supercompactor air permit
E	91JE300	Bldg. 333 paint spray booth air permit
E	91JE316	Bldg. 910 evaporation units air permit
E	91JE430	Bldg. 995 sanitary waste water treatment plant belt filter press and sludge dryer air permit
E	91JE537-1&2	Bldg. 440 paint spray booth air permit

N = NPDES (National Pollutant Discharge Elimination System, Clean Water Act)
P = PSD (Prevention of Significant Deterioration, Clean Air Act)
R = RCRA (Resource Conservation and Recovery Act)
E = Other relevant environmental permits (State permits for new air emission sources in non-attainment areas under Part D of the Clean Air Act)

For EPA Regional Use Only

Date Received
Month Day Year

EPA

United States Environmental Protection Agency
Washington, DC 20460

Hazardous Waste Permit Application

Part A

(Read the Instructions before starting)

For State Use Only

I. ID Number(s)

A. EPA ID Number	B. Secondary ID Number *(If applicable)*
C078900105 26	

II. Name of Facility

U.S. DOE ROCKY FLATS PLANT

III. Facility Location *(Physical address not P.O. Box or Route Number)*

A. Street

Section 2 Range 70W

Street *(continued)*

Township 2S

City or Town	State	ZIP Code
Golden	CO	80402-0464

County Code *(If known)*	County Name
	Jefferson

B. Land Type *(enter code)*	C. Geographic Location		D. Facility Existence Date
	LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*	Month Day Year
F	39 53 03 0	105 11 03 0	1 9 5 1

IV. Facility Mailing Address

Street or P.O. Box

P O Box 464

City or Town	State	ZIP Code
Golden	CO	80402-0464

V. Facility Contact *(Person to be contacted regarding waste activities at facility)*

Name *(last)*	*(first)*
Veeth	Terry A.

Job Title	Phone Number *(area code and number)*
Rocky Flats Mgr	303-966-2025

VI. Facility Contact Address *(See instructions)*

A. Contact Address Location	A. Contact Address Mailing	B. Street or P.O. Box
	X	

City or Town	State	ZIP Code

VIII. Operator Information (see instructions)

A. Name of Operator

U.S. Department of Energy (DOE)

Street or P.O. Box

P.O. Box 928

City or Town | State | ZIP Code

GOLDEN | CO | 80402-0928

Phone Number (area code and number)

303-966-2025

B. Operator Type: F

C. Change of Operator Indicator: Yes [ ] No [X]

Date Changed: Month Day Year

VIII. Facility Owner (see instructions)

A. Name of Facility's Legal Owner

U.S. Department of Energy (DOE)

Street or P.O. Box

P.O. Box 928

City or Town | State | ZIP Code

Golden | CO | 80402-0928

Phone Number (area code and number)

303-966-2025

B. Owner Type: F

C. Change of Owner Indicator: Yes [ ] No [X]

Date Change: Month Day

IX. SIC Codes (4-digit, in order of significance)

A. Primary: 3489 (Description) Ordnance and Accessories (NEC)

B. Secondary: (Description)

C. Secondary: (Description)

D. Secondary: (Description)

X. Other Environmental Permits (see instructions)

A. Permit Type (enter code)	B. Permit Number	C. Description
		(See attachment 1)

X. Nature of Business (provide a brief description)

The DOE Rocky Flats Plant is a U. S. Government (DOE) owned and operated facility operating under authority of the Atomic Energy Act of 1954 as amended and with a primary mission of producing plutonium components for nuclear weapons for national defense. Production activities involve the fabrication and assembly of plutonium, uranium, beryllium, and stainless steel parts. Other activities include chemical processing to recover plutonium and other metals from scrap material, R&D in metallurgy, mac non-destructive testing, coating and plating, remote engineering, chemistry, and physics. Parts, components and sub-assemblies manufactured at this location are shipped elsewhere for final assembly.

XIII. Process Codes and Design Capacities

A. PROCESS CODE — Enter the code from the list of process codes below that best describes each process to be used at the fac two lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additio information.) If process will be used that is not included in the list of codes below, then describe the process (including its des capacity) in the space provided in Item XIII.

B. PROCESS DESIGN CAPACITY — For each code entered in column A, enter the capacity of the process.

1. AMOUNT — Enter the amount. In case where design capacity is not applicable (such as in a closure/post-closure enforcement action) enter the total amount of waste for that process unit.

2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

C. PROCESS TOTAL NUMBER OF UNITS — Enter the total number of units used with the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	DISPOSAL:	
D79	INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY
D80	LANDFILL	ACRE-FEET OR HECTARE-METER
D81	LAND APPLICATION	ACRES OR HECTARES
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS
	STORAGE:	
S01	CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS
S02	TANK	GALLONS OR LITERS
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS
	TREATMENT:	
T01	TANK	GALLONS PER DAY OR LITERS PER DAY
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR
T04	OTHER TREATMENT (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided in Item XIII.)	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY

UNIT OF MEASURE	UNIT MEAS CODE
GALLONS	G
GALLONS PER HOUR	E
GALLONS PER DAY	U
LITERS	L
LITERS PER HOUR	H
LITERS PER DAY	?
SHORT TONS PER HOUR	D
METRIC TONS PER HOUR	W
SHORT TONS PER DAY	N
METRIC TONS PER DAY	S
POUNDS PER HOUR	J
KILOGRAMS PER HOUR	R
CUBIC YARDS	Y
CUBIC METERS	C
ACRES	B
ACRE-FEET	A
HECTARES	C
HECTARE-METER	F
BTU'S PER HOUR	K

XII. Process Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY — 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY — 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY
X 1	S 0 2	600	G	0 0 2	
X 2	T 0 3	20	E	0 0 1	
1		(See attachment 2)			
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in Item XIII.

XIII. Additional Treatment Processes (follow instructions from Item XII)

Line Number (enter numbers in sequence with Item XII)	A. PROCESS CODE	B. TREATMENT PROCESS DESIGN CAPACITY — 1. AMOUNT (specify)	B. TREATMENT PROCESS DESIGN CAPACITY — 2. UNIT OF MEASURE (enter code)	C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS
					(See attachment 3)
	T 0 2				
	T 0 3				
	T 0 4				

XIV. Description of Hazardous Wastes

A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous w you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) fro CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that w handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quant all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required un measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of pro codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the fa

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A select the code(s) fro list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, a dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of Item XIV-D(1).
3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).

2. PROCESS DESCRIPTION - If a code is not listed for a process that will be used, describe the process in the space provic the form. (D.(2))

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wast can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete column and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the w column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispo estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will t dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of eac The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS (1) PROCESS CODES (enter)	(2) PROCESS DESC (If a code is not enter
X 1	K 0 5 4	900	P	T 0 3 D 8 0	
X 2	D 0 0 2	400	P	T 0 3 D 8 0	
X 3	D 0 0 1	100	P	T 0 3 D 8 0	
X 4	D 0 0 2				Included With Above

0 0 7 8 9 0 0 2 0 5 3 6

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES (1) PROCESS CODES (enter)	D. PROCESSES (2) PROCESS DESCRIPTION (If a code is not entered in D(1))
21		(See attachment 4)			

EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
C I O 7 8 9 0 0 1 0 5 2 6	

XIV. Description of Hazardous Waste (continued)

~~E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.~~

Line Number	Additional Process Codes (enter)

XV. Map

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements. see attachment 5

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail). seeattachment 6

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

see attachment 7

XVIII. Certification(s)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to be the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner Signature	Date Signed
See Attachment 8	
Name and Official Title *(type or print)*	
Operator Signature	Date Signed
See Attachment 8	
Name and Official Title *(type or print)*	

XIX. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (refer to instructions for more information)

ATTACHMENT 2

ITEM XII. PROCESS - CODES AND DESIGN CAPACITIES

The following table lists the process codes and design capacities for each of the interim status units at the Rocky Flats Plant. Unit capacities are indicated with two columns, one for hazardous and low level mixed waste and one for TRU mixed waste and newly generated mixed residues (generated after July 31, 1991). If there is no capacity listed in a given column and no footnote exists, there is no storage capacity for the particular waste type. Units indicated with one asterisk are inactive and are scheduled for closure under interim status, and therefore have no design capacities listed. Bold type indicates the revisions to this Part A. Design capacities for hazardous and low-level mixed waste units are given in gallons (G) for liquids and in cubic yards (Y) for solids. Design capacities for TRU mixed waste and mixed residue units are given in either cubic yards (Y) or liters (L), without differentiating between solids and liquids. TRU mixed and mixed residue storage areas may store either solids or liquids if the unit meets the regulatory requirements for storing the particular waste form. Design rates given in gallons per hour (E) and gallons per day (U) indicate treatment of liquids, and rates given in tons per hour (D) indicate treatment of solids. A capacity shown in brackets ([ ]) denotes a staging area for container counters and is therefore not included in the 1601 Y limit imposed on TRU mixed and mixed residue container storage.

Hazardous and low-level mixed waste units for which both liquid and solid capacities are specified include the words and/or. And is used to indicate that the unit can store both the indicated liquid capacity and the indicated solid capacity. Or is used to indicate that the unit can store either the indicated liquid capacity, or the indicated solid capacity, or some combination of liquids and solids. All changes to this document are indicated in bold type. Italics indicate the units that are included in the State RCRA Permit (91-09-30-01) for Rocky Flats Plant. Footnotes for this attachment are listed on page 13.

REF. NO.	PROC CODE	UNIT NAME	DESIGN CAPACITY HAZARDOUS (HAZ) & LOW LEVEL MIXED	DESIGN CAPACITY MIXED RESIDUES & TRU MIXED
1	*S01*	*Main Hazardous Waste Storage Area*	*39,160 G and 150 Y*	
2*	S01	Drum Storage Area: Building 331	- -	
4*	S01	Acid Dumpsters: Building 444	- -	
6	S01	Chip Drum Storage Area: Building 447 Room 501	5.8 Y	
8*	S01	Acid Dumpsters: Building 460	- -	
9*	S01	Solvent Dumpsters: Building 460	- -	
10	*S01*	*Drum Storage Area: Building 561*	*17,600 G*	
11*	S01	Drum Storage Area: Building 776 Room 134	7,000 G and 300(1) Y	149 Y

ATTACHMENT 2 (CONTINUED)

ITEM XII. PROCESSES - CODES AND DESIGN CAPACITIES

REF. NO.	PROC CODE	UNIT NAME	DESIGN CAPACITY HAZ & LOW LEVEL MIXED	DESIGN CAPACITY MIXED RESIDUES & TRU MIXED
12	S01	Drum Storage Area: Building 776 Room 237	10,010 G or 50 Y(2)	
13	S01	Mixed Waste Storage: Building 884	55,440 G or 275 Y(2)	
15B 15A	S01	Mixed Waste Storage Area: 904 Pad	Pad Area: 10,700 Y and Cargo Containers: 4,785 G or 1050 Y	
16*	S01	Drum Storage Area: Building 980	--	
17	S01	Mixed Waste Storage: Building 777 Room 432C	1.64 Y	
18.01	S02 T01	Remedial Action Decontamination Pad Tanks	12,500 G 5,000 U	
18.02	S02 T04	Granular Activated Carbon Treatment	5,000 G 14,400 U	
18.03	S01	Environmental Waste Drum Storage - Tent 1	145,200 G or 660 Y	
18.04	S01	Environmental Waste Drum Storage Unit	110,000 G or 500 Y	
19	S01	Mixed Waste Storage Area: Building 374 Room 3813	236 Y(1)	138 Y
20	S01	Shipping Storage Area: Building 664	2500 Y(1)	587 Y
21	S01	Pondcrete Storage Area: Building 788	1,200 Y	
23	S01	Gas Cylinder Storage: Building 952	6,400 C	
24	S01	Mixed Waste Storage: Building 964	610 Y	
25	S01	Mixed Waste Storage Area: 750 Pad	14,000 Y	
26*	S01	Drum Storage Area: Building 881 Room 266B	--	

ATTACHMENT 2 (CONTINUED)

ITEM XII: PROCESSES - CODES AND DESIGN CAPACITIES

REF. NO.	PROC CODE	UNIT NAME	DESIGN CAPACITY HAZ & LOW LEVEL MIXED	DESIGN CAPACITY MIXED RESIDUES & TRU MIXED
27	S01	Mixed Waste Storage: Building 776 Room 201	2,750 G or 13.62 Y(2)	
28***	S01	Storage Area: Building 889	150 Y	
30	T04	Chip Cementation: Building 447	1,100 U	
32*	T04	Bench Scale Treatment: Building 881	--	
34	T04	Pondcrete/Saltcrete Reprocessing Facility: 750 Pad	4.13 D	
35	T04	Pondcrete/Saltcrete Reprocessing Facility: 904 Pad	2.07 D	
36***	T04	Low Level Mixed Waste Baler: Building 889	0.66 D	
37***	S01 T04	Low Level Mixed Waste Baler: Building 776	50 Y 0.66 D	
39	T04	Fabric Filtration: Buildings 444, 447, 460	2,000 E	
40	S02	Process Waste Transfer and Collection System	150,000 G(1)	or 150,000 G(1)
41	S02	Process Waste Storage Tanks: Building 774	21,000 G	
42	T01 S02	Process Waste Treatment Facility: Building 374	4,500 E(1) 116,160 G	or 4,500 E(1)
43	S02	Process Wastewater Tanks	1,200,000 G	
44	S02	Oil Storage Tanks: Building 776	750 G	
45*	T04	Original Uranium Chip Roaster: Building 447	--	
48	T04	Pondcrete Solidification Process: Building 788	13 D	
49**	T03/ T04	Fluidized Bed Units: Building 776 Pilot Unit: Production Unit:	0.013 D 2 E 0.09 D 10 E	
53*	T04	Miscellaneous Cementation: Buildings 371 and 771	--	

ATTACHMENT 2 (CONTINUED)

ITEM XII. PROCESSES - CODES AND DESIGN CAPACITIES

REF. NO.	PROC CODE	UNIT NAME	DESIGN CAPACITY HAZ & LOW LEVEL MIXED	DESIGN CAPACITY MIXED RESIDUES & TRU MIXED
55	T01 S02	Aqueous Process Waste Treatment: Building 774	8,000 G(1) 122,060 G(1)	or 8,000 G(1) or 122,060 G(1)
56	T04 S02	Organic Waste Immobilization: Building 774	360 U(1) 2,440 G(1)	or 360 U(1) or 2,440 G(1)
57	T04	Miscellaneous Waste Handling and Immobilization: Building 774	55 U(1)	or 55 U(1)
59	S01	Crate Counting Facility: Building 569		412 Y
60*	S01	Drum Storage Area: Building 371 Room 1208		- -
61	T04 S01+	Size Reduction Vault: Building 776	0.44 D(1)	or 0.44 D(1)
62	T04 S01+	Advanced Size Reduction Facility: Building 776	1.3 D(1)	or 1.3 D(1)
63	S01	Drum Storage Area: Building 371 Room 3420		182 Y
69	S01	Drum/Crate Storage Area: Building 776 Room 154	100 Y	116 Y
73	S01	Drum Storage Area: Building 774 Room 241	4,000 G(1) or 17 Y(1)	or 4,000 G(1) or 17 Y(1)
74***	T04	Supercompaction and Repackaging Facility: Building 776	0.45 D(1)	or 0.45 D(1)
75***	T04	TRU Waste Shredder: Building 776		0.23 D
78@	S01	Passive/Active Drum Counter: Building 371, Room 2202	8.2 Y(1)	or [8.2 Y(1)]
79@	S01	Segmented Gamma Scan Counter: Building 707, Room 196		[8.2 Y]
90.001@	S01	Container Storage Area: Building 371, Room 3189	8.2 Y(1)	or [8.2 Y(1)]
90.011@	S01	Container Storage Area: Building 371, Room 3187B Segmented Gamma Scan Counter	0.3 Y(1)	or [0.3 Y(1)]

ATTACHMENT 2 (CONTINUED)

ITEM XII. PROCESSES - CODES AND DESIGN CAPACITIES

REF. NO.	PROC CODE	UNIT NAME	DESIGN CAPACITY HAZ & LOW LEVEL MIXED	DESIGN CAPACITY MIXED RESIDUES & TRU MIXED
90.016@	S01	Container Storage Area: Building 371, Room 2325	8.2 Y(1)	or [8.2 Y(1)]
90.025@	S01	Container Storage Area: Building 771 Annex HEPA LOSAC and SGS Counters	8.2 Y(1)	or [8.2 Y(1)]

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* Indicates units which will be closed under interim status.

* * The Fluidized Bed Units are not currently operating but are not scheduled for closure.

* * * A request for change to interim status or permit modification request has been submitted for this unit but has not been approved as of April 1992.

\+ Storage capacity of Units 11, 61 and 62 will not exceed the capacity given for Unit 11 (i.e. the net facility storage capacity will not increase).

@ Indicates that a permit modification request has been submitted but has not been approved as of April 1992. However, this unit or waste code has been granted temporary authorization. For information regarding expiration dates of temporary authorization, please contact RCRA Permitting at x7752.

(1) Capacity for these units includes hazardous wastes, low level mixed wastes, TRU mixed wastes, and mixed residues combined.

(2) Any combination of liquid and solid may be stored, in quantities not to exceed either of the capacities shown.

Notes: The units shown in italics are included in the State RCRA Permit (No. 91-09-30-01) for the Rocky Flats Plant.

ATTACHMENT 3

SECTION XIII. ADDITIONAL TREATMENT PROCESSES

A detailed description of the units seeking a RCRA operating permit ("T/S/D units") at the Rocky Flats Plant may be found in Section D of the Part B permit application.

REF. NO.	UNIT NAME	DESCRIPTION OF PROCESS
18.02	Granular Activated Carbon Treatment	Environmental restoration wastewaters that are found to contain volatile organic constituents (EPA Contract Lab list) that exceed the water quality standards set forth under the Safe Drinking Water Act and/or the Water Quality Control Commission regulations or, where no standard exists for a particular volatile organic constituent, exceed the Practical Quantification Limit (PQL), will be treated by granular activated carbon adsorption. The treatment effluent is then transferred to Building 374 (Unit 42) via Unit 43 for further treatment.
30	Chip Cementation: Building 447	Waste composite chips coated with oils and solvents are blended with a sand/cement/water mixture in 55-gallon drums using a vibrator. The drum is capped with a cement and oil-dry mixture. The solidified mixture and drum are stored on site awaiting an approved out-of-state disposal facility.
32	Bench Scale Treatment: Building 881	To be closed under interim status. Closure plan submitted to CDH on October 3, 1988.
34	Pondcrete/Saltcrete Reprocessing Facility: 750 Pad	Previously processed pondcrete and saltcrete waste forms will be removed from triwall containers. As required, blocks will be broken with an impact hammer. The waste will be mixed with cement, water, and aggregate and poured into a plywood box. After the mixture has cured, the plywood boxes will be sealed.
35	Pondcrete/Saltcrete Processing Facility: 904 Pad	Previously processed pondcrete and saltcrete waste forms will be removed from triwall containers. As required, blocks will be broken with an impact hammer. The waste will be mixed with cement, water, and aggregate and poured into a plywood box. After the mixture has cured, the plywood boxes will be sealed.

ATTACHMENT 3 (CONTINUED)

SECTION XIII. ADDITIONAL TREATMENT PROCESSES

36	Low Level Mixed Waste Baler: Building 889	The baler is a compaction device. It compacts and packages combustible waste only, into 20" (W) x 20" (H) x 30" (L) bales. Eight of these bales are placed in a 4'x4'x7' waste crate. After the crates are filled, they are available for off-site shipment. Free liquids, pressurized containers and rigid materials are removed from the waste stream before baling.
37	Low Level Mixed Waste Baler: Building 776	The baler is a compaction device. It compacts and packages combustible waste only, into 20" (W) x 20" (H) x 30" (L) bales. Eight of these bales are placed in a 4'x4'x7' waste crate. After the crates are filled, they are available for off-site shipment. Free liquids, pressurized containers and rigid materials are removed from the waste stream before baling.
39	Fabric Filtration: Buildings 444, 447, 460	The process waste systems in Buildings 444, 447, and 460 utilize fabric filters to remove solid materials from the liquid waste prior to shipping to the Building 374 waste treatment facility. The filter system consists of a drained table with a filter roll at one end. The filter unrolls automatically across the top surface of the table and accumulates in a 55-gallon stainless steel drum lined with a plastic bag. Process waste is pumped to the table where it gravity drains through the filter. Particulates are subsequently trapped in the filter and are disposed of as a hazardous waste along with the filter.
45	Original Uranium Chip Roaster: Building 447	To be closed under interim status. Closure plan submitted to CDH on October 3, 1988.
48	Pondcrete Solidification Process: Building 788	Sludge solids are pumped from the solar pond 207A to a thickener tank. The thickened solids are pumped from the thickener to a pug mill or batch mixer and blended with portland cement. The mixture called "pondcrete" flows over a weir at the end of the pug mill into plastic-lined plywood boxes. Pondcrete that was not adequately solidified may be re-processed in the batch mixer. The cured pondcrete is stored on site until it is shipped to an approved out-of-state disposal facility.

ATTACHMENT 3 (CONTINUED)

SECTION XIII. ADDITIONAL TREATMENT PROCESSES

49	Fluidized Bed Units: Building 776	In Revisions 0 and 1 of the hazardous and low level mixed waste Part A applications, the FBUs were classified as process T03 (incinerator). Per correspondence with CDH/EPA in July 1988, they have been reclassified as process code T04 (Subpart X treatment units), but may again be classified as incinerators in the future based on proposed changes to the definition of incinerator. There are two fluidized bed units: a pilot scale unit and a production unit. The units are designed to handle solid and liquid hazardous and low level mixed waste.
53	Miscellaneous Cementation: Buildings 371 and 771	To be closed under interim status. Closure plan submitted to CDH on April 1, 1989.
56	Organic Waste Immobilization: Building 774	Transuranic organic liquids are immobilized into solid form. Discardable lathe coolant and degreasing solvents, pumped by pipeline from Buildings 707, 776 and 777 machine operations, are blended in a 55-gallon drum with an emulsifying agent, water, Envirostone (gypsum cement), and an accelerator using a double impeller. All solidified waste forms are inspected and radiographed for the presence of free liquids.
57	Miscellaneous Waste Handling and Immobilization: Building 774	Miscellaneous liquid and solid waste that are incompatible with process equipment or the liquid waste treatment process are immobilized in a 55-gallon drum, using a mixture of Portland cement and absorbent cement. All acidic wastes are neutralized before cementing. The wastes processed generally come from the analytical laboratories, maintenance shops, and the research and development laboratories around plant-site. The wastes usually arrive at this treatment process packaged in 4 or 8 liter bottles overpacked in 55-gallon drums.

ATTACHMENT 3 (CONTINUED)

SECTION XIII. ADDITIONAL TREATMENT PROCESSES

61	Size Reduction Vault: Building 776	This facility is a supplied-air room entry vault located in Building 776, Room 146. A variety of contaminated solid waste materials are processed for size reduction. Large equipment is cut up using saws, plasma torches, etc. Glove box gloves and metals are washed in a ball mill washer. Insulation and filter media are cemented and packaged in drums. Contaminated drums and high efficiency particulate air (HEPA) filters are crushed. Repackaging of various types of drummed and crated wastes is also done. Size-reduced wastes are packaged in wooden and metal crates and 55-gallon drums. These operations generate sludge, ful-flo filters and liquid waste from the ball mill containing measurable amounts of plutonium. These materials are processed for plutonium recovery. Liquid wastes are filtered for Pu, sampled, and pumped to Building 374 for treatment.
62	Advanced Size Reduction Facility: Building 776	This facility is an enclosed canyon and glovebox system with dedicated heating, ventilation, air conditioning and exhaust systems. Contaminated solid wastes, such as glove boxes, machine tools and processing equipment, are introduced into the canyon for size reduction and steam cleaning. Size reduction is done by manual disassembly, remote disassembly, and plasma arc cutting. Steam cleaning of the size reduced parts reduces contamination levels before packaging. Wastes are packaged in wooden and metal crates and 55-gallon drums. Repackaging of various types of drummed and crated wastes is also done. The liquid from steam cleaning operations is filtered for Pu recovery and is transferred to Building 374 for treatment.
74	Supercompaction and Repacking Facility	This proposed facility will consist of two stages of compaction enclosed in a glove box. Two categories of waste will be processed. Soft waste (initially packaged in 55-gallon drums) will be unpackaged and pre-compacted into 35-gallon drums. Hard waste will enter the facility in 35-gallon drums. Both types of drums will be supercompacted into "pucks." The pucks will be loaded into 55-gallon drums.
75	TRU Waste Shredder	This proposed facility will shred graphite molds, HEPA filters and filter media. The process will be located in a glove box. The waste will be loaded on a conveyor and transported to a hopper. The shredder will consist of two counter rotating shafts with knives. The shredded waste will be loaded into 35 or 55-gallon drums.

ATTACHMENT 4

SECTION XIV. DESCRIPTION OF HAZARDOUS WASTE

The following table lists the EPA hazardous waste codes and estimated annual quantity of hazardous waste handled for each of the active units listed in Attachment 2 (i.e. excluding those units which are being closed under interim status). Bold type indicates a revision to the previously submitted Part A.

Due to variability in process operations and shipping status of the wastes, the figure given for annual quantity of waste handled at each unit may change considerably in the future. Wastes are generally transferred through more than one unit from the point of generation to final off-site shipment; thus the quantities given are not equivalent to waste generation rates at the facility. For example, a drum of line generated combustibles may be stored in Unit 11 or 63 for interim storage after counting, then be transferred to Unit 61 for size reduction, then to Unit 59 for assay, and finally to Unit 20 for off-site shipment.

REF. NO.	EPA HAZARDOUS WASTE NOS.	EST ANNUAL QUANTITY OF WASTE	UNIT OF MEASURE	PROCESS CODE
1	D001,D002,D003,D004,D005,D006, D007,D008,D009,D010,D011,D018, D019,D028,D029,D035,D038, D040,D043,F001,F002,F003,F005, F006,F007,F009,P Series, U Series	66.8	T	S01
6	D001,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003,	18	T	S01
10	D001,D002,D003@,D004,D005,D006,D007, D008,D009,D010@,D011@,D018,D019,D028, D029,D035,D038,D040,D043, F001,F002,F003,F005,F007,F009, P Series@,U Series@	16.4	T	S01
11	D001,D002*,D003,D004,D005,D006, D007,D008,D009,D010,D011*, D018,D019,D022,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005*,F006,F007, F008,F009,P Series,U Series	Haz. & LL: 12.5 TRU: 151.6	T T	S01
12	D001,D005@,D006,D007,D008,D009, D018,D019,D028,D029,D035,D038, D040,D043,F001,F002,F003,F005@, P Series, U Series	9.6	T	S01

ATTACHMENT 4 (CONTINUED)

SECTION XIV. DESCRIPTION OF HAZARDOUS WASTES

REF. NO.	EPA HAZARDOUS WASTE NOS.	EST ANNUAL QUANTITY OF WASTE	UNIT OF MEASURE	PROCESS CODE
13	D001,D003,D006,D007,D008,D009, D010@,D011,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003,F005,P Series@, U Series@	11.1	T	S01
15+	D001,D002,D003,D004@,D005@,D006, D007,D008,D009@,D010@,D011,D018, D019,D028,D029,D035,D038,D040, D043,F001,F002,F003,F005,F006, F007,F009,P Series@, U Series@	Cargos: 10 Pad Area: 655.2(1)	T T	S01
17	D001,D008,D018,D019,D028, D029,D035,D038,D040,D043,F001 F002,F003,F005,U239	0	T	S01
18.01	D004,D005,D006,D007,D008, D009,D011,D019,D022,F001, F002,F003,F005	702,000	G	S02
18.02	D004,D005,D006,D007,D008, D009,D011,D019,D022,F001, F002,F003,F005	702,000	G	S02 T04
18.03	D004,D005,D006,D007,D008, D009,D011,D019,D022,F001, F002,F003,F005	1,000	T	S01
18.04	D004,D005,D006,D007,D008, D009,D011,D019,D022,F001, F002,F003,F005	1,000	T	S01
19	D002,D004,D005*,D006,D007, D008,D009,D010*,D011*,D018,D019,D022, D028,D029,D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,F008,F009,P Series*, U Series*	Haz. & LL: 937 TRU: 62.8	T T	S01

ATTACHMENT 4 (CONTINUED)

SECTION XIV. DESCRIPTION OF HAZARDOUS WASTES

REF. NO.	EPA HAZARDOUS WASTE NOS.	EST ANNUAL QUANTITY OF WASTE	UNIT OF MEASURE	PROCESS CODE
20	D001,D002,D003,D004,D005, D006,D007,D008,D009,**D010****,D011, D018,D019,**D022**,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,**F008**,F009,**P Series****,**U Series****	Haz. & LL: 14,550 TRU: 831	T T	S01
21	D002,D003,D006,D007,D008,D009, D018,D019,D028,D029,D035, D038,D040,D043,F001,F002, F003,F005,F006,F007,F009	11,600	T	S01
23	D001,D002,D003,P Series, U Series	28	P	S01
24	D004,D006,D007,D008,D009,D010,D011, D018,D019,D028,D029,D035,D038,D040, D043,F001,F002,F003,F005,F006, (vacuum filter sludge)	160.6	T	S01
25	D002,D003,D004*,D006,D007,D008, D009,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003,F005,F006,F007, F009; (pondcrete, saltcrete)	255.7(1)	T	S01
27	D001,D005@,D006,D007,D008,D009, D018,D019,D028,D029,D035, D038,D040,D043,F001,F002,F003,F005@	6.1	T	S01
28*	D001,D003,D006,D007,D008,D009, D011,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003,F005,F006,F007,F009,P015	88	T	S01
30	D001,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003	25.5	T	T04
34	D002,D003,D004,D006,D007,D008, D009,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003,F005,F006,F007,F009	6,759(2)	T	T04

ATTACHMENT 4 (CONTINUED)

SECTION XIV. DESCRIPTION OF HAZARDOUS WASTES

REF. NO.	EPA HAZARDOUS WASTE NOS.		QUANTITY OF WASTE	EST ANNUAL UNIT OF MEASURE	PROCESS CODE
35	D002,D003,D004,D006,D007,D008, D009,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003,F005,F006,F007,F009		6,759(2)	T	T04
36*	D001,D003,D006,D007,D008,D009, D011,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003,F005,F006,F007,F009,P015		150	T	T04
37*	D004,D006,D007,D008,D009, D018,D019,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005		1000	T	T04 S01
39	D001,D002,D004,D005,D007, D008,D018,D019,D028,D029, D035,D038,D040,D043,F001, F002,F003,F007,F009	Process liquid: Filter solids:	9,383.5 14.4	T T	T04
40	D001,D002,D003,D004,D005,D006,D007, D008,D009,D010,D011,D018,D019,D022, D028,D029,D035,D038, D040,D043,F001,F002,F003,F005, F007,F008,F009,P Series,U Series		68,000	T	S02
41	D001,D002,D004,D005,D007,D008, D018,D019,D028,D029,D035, D038,D040,D043,F001,F002, F003,F009		73.5	T	S02
42	D001,D002,D003*,D004,D005,D006*,D007, D008,D009,D010*,D011,D018,D019,D022*, D028,D029,D035,D038, D040,D043,F001,F002, F003,F005*,F007,F008,F009, P Series*,U Series*		68,419	T	T01 S02
43	D001,D002,D003,D004,D005,D006*,D007,D008, D009*,D010,D011*,D018,D019,D022*,D028, D029,D035,D038,D040,D043,F001,F002, F003,F005*,F007,F008,F009,P Series*,U Series*		13,950.7	T	S02

ATTACHMENT 4 (CONTINUED)

SECTION XIV. DESCRIPTION OF HAZARDOUS WASTES

REF. NO.	EPA HAZARDOUS WASTE NOS.	EST ANNUAL QUANTITY OF WASTE	UNIT OF MEASURE	PROCESS CODE
44	D001,D006,D007,D008,D018,D019, D028,D029,D035,D038,D040, D043,F001,F002,F003,F005	2.6	T	S02
48	D002,D003,D006,D007,D008,D009, D018,D019,D028,D029,D035,D038,D040, D043,F001,F002,F003,F005,F006,F007,F009	2,455	T	T04
55	D001,D002,D003*,D004,D005,D006, D007,D008,D009,D010,D011, D018,D019,D022,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005*,F007,F008, F009,P Series*, U Series*	1,254	T	T01 S02
56	D001,D006*,D007*,D008*, D018,D019,D022,D028,D029,D035,D038,D040, D043,F001,F002*,F003,F005*,P Series*,U Series*	44	T	T04 S02
57	D001,D002,D003,D004,D005,D006*, D007,D008*,D009*,D010,D011,D018,D019,D022, D028,D029,D035,D038,D040,D043,F001 F002,F003,F005*,F007,F008,F009, P Series*, U Series*	1.15	T	T04
59	D001,D002,D003,D004,D005, D006,D007,D008,D009,D010,D011, D018,D019,D022,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,F008,F009,P Series,U Series	87	T	S01
61**	D001*,D002,D003,D004,D005,D006,D007*, D008,D009,D010,D011,D018,D019,D022, D028,D029,D035,D038,D040,D043, F001,F002,F003,F005,F006,F007, F008,F009,P Series,U Series	1,121.7	T	T04 S01
62**	D001*,D002,D003,D004,D005,D006,D007*, D008,D009,D010,D011,D018,D019,D022, D028,D029,D035,D038,D040,D043, F001,F002,F003,F005,F006,F007, F008,F009,P Series,U Series	55.5	T	T04 S01

ATTACHMENT 4 (CONTINUED)

SECTION XIV. DESCRIPTION OF HAZARDOUS WASTES

REF. NO.	EPA HAZARDOUS WASTE NOS.	EST ANNUAL QUANTITY OF WASTE	UNIT OF MEASURE	PROCESS CODE
63	D004,D006,D007, D008,D009,,D018, D019,D028,D029,D035,D038,D040,D043, F001,F002,F003,F005,	221.4	T	S01
69	**D001,D002,D003**,D004,**D005**, D006,D007,D008,D009,**D010**,D011,D018,D019, **D022**,D028,D029,D035,D038,D040,D043, F001,F002,F003,F005,**F006,F007, F008,F009,P Series,U Series**	Haz. & low level: 100 TRU: 113.1	T T	S01
73	D001*,D002*,D003*,D004,D005*, D006,D007,D008,D009,D010*,D011*, D018,D019,**D022**,D028,D029,D035,D038,D040, D043,F001,F002,F003,F005*,**F007, F008,F009**,P Series*, U Series*	247.3	T	S01
74***	*D006*,D007**,D008,D009,D018,D019, D028,D029,D035,D038, D040,D043,F001,F002, *F003*,F005**	191.2	T	T04
75*	F001,F002	38	T	T04
78@	D001,D002,D003,D004,D005, D006,D007,D008,D009,D010,D011, D018,D019,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,F009,P Series,U Series	328	T	S01
79@	D001,D002,D003,D004,D005, D006,D007,D008,D009,D010,D011, D018,D019,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,F009,P Series,U Series	43	T	S01
90.001@	D001,D002,D003,D004,D005, D006,D007,D008,D009,D010,D011, D018,D019,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,F009,P Series,U Series	43	T	S01

ATTACHMENT 4 (CONTINUED)

SECTION XIV. DESCRIPTION OF HAZARDOUS WASTES

REF. NO.	EPA HAZARDOUS WASTE NOS.	EST ANNUAL QUANTITY OF WASTE	UNIT OF MEASURE	PROCESS CODE
90.011@	D001,D002,D003,D004,D005, D006,D007,D008,D009,D010,D011, D018,D019,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,F009,P Series,U Series	43	T	S01
90.016@	D001,D002,D003,D004,D005, D006,D007,D008,D009,D010,D011, D018,D019,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,F009,P Series,U Series	43	T	S01
90.025@	D001,D002,D003,D004,D005, D006,D007,D008,D009,D010,D011, D018,D019,D028,D029, D035,D038,D040,D043, F001,F002,F003,F005,F006, F007,F009,P Series,U Series	328	T	S01

(1) This quantity does not include pondcrete, which was only shipped from the pad and not added in the time period used for this estimate (July 1988 to July 1989).

(2) This number represents the total waste that will be processed in this unit.

• A request for change to interim status has been submitted for this unit, but has not been approved as of April 1992. This also indicates those waste codes for which approval has been requested but not yet granted by CDH.

• • The storage capacity for Units 61 and 62 will be included in the storage capacity of Unit 11. The treatment capacity (i.e. existing TRU mixed waste capacity) includes both TRU and low-level mixed wastes.

• • • A request was submitted in July 1991 to allow for the supercompaction of low-level mixed waste. The waste codes identified in italics are the additional low-level mixed wastes which will be supercompacted. This unit has not been granted interim status as of April 1992.

@ Indicates that a permit modification request has been submitted but has not been approved as of April 1992. However, this unit or waste code has been granted temporary authorization. For information regarding expiration dates of temporary authorization, please contact RCRA Permitting at x7752.

- Unit 15 can store saltcrete, pondcrete, and cemented composite chips on the pad, and other drummed mixed wastes in cargo containers.

-- Reflects approval to store waste for the purpose of Real Time Radiography as stated in a letter from CDH to DOE on October 24, 1990.

ATTACHMENT 5

SECTION XV. MAP

A topographic map of the Rocky Flats Plant manufacturing facility and surrounding environs has been previously submitted with other Part A applications. The map delineates the facility property boundary, streams, surface water bodies, discharge ponds, and drinking water wells within 1/4 mile of the facility.

ATTACHMENT 6

SECTION XVI. FACILITY DRAWING

Facility drawings have been submitted with previous applications and will not be submitted here.

ATTACHMENT 7

SECTION XVII. PHOTOGRAPHS

Copies of the existing units are not enclosed since photographs of these units are currently on file in the CDH office.

The following table presents an index to the photographs.

KEY TO PHOTOGRAPHS
TREATMENT AND STORAGE FACILITIES

REF. NO.	UNIT NAME
1	Main Hazardous Waste Storage Area
6	Chip Drum Storage Area: Building 447 Room 501
10	Drum Storage Area: Building 561
11	Drum Storage Area: Building 776 Room 134
12	Drum Storage Area: Building 776 Room 237
13	Mixed Waste Storage Building: Building 884
15	Mixed Waste Storage Area: 904 Pad
17	Mixed Waste Storage Area: Building 777 Room 432C
18.01	Remedial Action Decontamination Pad Tanks
18.02	Granular Activated Carbon Treatment
18.03	Environmental Waste Drum Storage - Tent 1
18.04	Environmental Waste Drum Storage Unit
19	Mixed Waste Storage Area: Building 374 Room 3813
20	Shipping Storage Area: Building 664
21	Pondcrete Storage Area: Building 788
23	Gas Cylinder Storage Building: Building 952
24	Mixed Waste Storage Building: Building 964
25	Mixed Waste Storage Area: 750 Pad
27	Mixed Waste Storage: Building 776 Room 201
28	Storage Area: Building 889
30	Chip Cementation: Building 447
34**	Pondcrete/Saltcrete Reprocessing Facility: 750 Pad
35**	Pondcrete/Saltcrete Reprocessing Facility: 904 Pad
36	Low Level Mixed Waste Baler: Building 889
37***	Low Level Mixed Waste Baler: Building 776
39	Fabric Filtration: Buildings 444, 447 and 460
40*	Process Waste Transfer and Collection System
41	Process Waste Storage Tanks: Building 774
42	Process Waste Treatment Facility: Building 374
43	Process Wastewater Tanks
44	Oil Storage Tanks: Building 776
48	Pondcrete Solidification Process: Building 788
55	Aqueous Process Waste Treatment: Building 774
56	Organic Waste Immobilization: Building 774
57	Miscellaneous Waste Handling and Immobilization: Building 774
59	Crate Counting Facility: Building 569
61	Size Reduction Vault: Building 776

ATTACHMENT 7 (CONTINUED)
SECTION XVII. PHOTOGRAPHS

REF. NO.	UNIT NAME
62	Advanced Size Reduction Facility: Building 776
63	Drum Storage Area: Building 371 Room 3420
69	Drum/Crate Storage Area: Building 776 Room 154
73	Drum Storage Area: Building 774 Room 241
74	Supercompaction and Repacking Facility: Building 776
75	TRU Waste Shredder: Building 776
76**	Drum Storage Area: Building 776 Room 127
78	Passive/Active Drum Counter: Building 371 Room 2202
79	Segmented Gamma Scan Counter: Building 707 Room 196
90.001**	Container Storage Area: Building 371, Room 3189
90.011	SGS Counter Storage Area: Building 371, Room 3187B
90.016**	Container Storage Area: Building 371, Room 2325
90.025	Counter Drum Storage Area: Building 771 Annex

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* Process Waste Transfer and Collection System is located throughout the Plant and underground, precluding the practicality of taking photographs.

** Photographs show existing condition of storage area and not the proposed arrangement of containers.

*** Unit 37 treatment equipment is identical to the baler in Building 889 (Unit 36), therefore photo not included.

ATTACHMENT 8

SECTION XVIII. CERTIFICATION(S)

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Owner and Operator Signature Date

J. K. Hartman, Assistant Manager
Environmental Management
Rocky Flats Office
U. S. Department of Energy

Co-operator Signature Date

J. M. Kersh, Associate General Manager
Environmental & Waste Management
EG&G Rocky Flats, Inc.